Currituck Sound Modeling Scenarios

29-30 April, 2008

Modeling Scenarios

- ✓ **Nutrient Loading**
  - Point source
  - Impervious surfaces
  - Agriculture influences
  - Channelization of Joyce Creek
- ✓ **AIWW**
  - Hydrologic effects
  - Discharge of Suspended Solids
  - Locks
- ✓ **Ocean Salinity Intrusion**
  - Historic inlets
  - Wash over
  - Pumping into Back Bay

Modeling Scenarios

- ✓ **Albemarle Sound Inputs**
  - **Dredging New River**
  - **Changes to Roanoke River – Dams, Flows**
- ✓ **Other influences**
  - **Blockages at the Narrows**
  - **Bridges – Roanoke Island, Outer Banks, Wright Bridge**
  - **Croatan Sound restrictions**
  - **Dredging Oregon Inlet**
  - **Wind fetch effects**
  - **Rising sea levels**